




Object position detector

Patent number: AU3544495
Publication date: 1996-03-27
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Classification:
- **International:** G06K11/16
- **European:**
Application number: AU19950035444D 19950901
Priority number(s): US19940300387 19940902; WO1995US11180 19950901

Also published as:

 WO9607981 (A1)
 EP0777888 (A1)
 EP0777888 (B1)

Abstract not available for AU3544495
Abstract of correspondent: **WO9607981**

A proximity sensor system includes a sensor matrix array having a characteristic capacitance on horizontal and vertical conductors connected to sensor pads. The capacitance changes as a function of the proximity of an object or objects to the sensor matrix. The change in capacitance of each node in both the X and Y directions of the matrix due to the approach of an object is converted to a set of voltages in the X and Y directions. These voltages are processed by digital circuitry to develop electrical signals representative of the centroid of the profile of the object, i.e., its position in the X and Y dimensions. Noise reduction and background level setting techniques inherently available in the architecture are employed.

